WRITTEN OPINION

International application No.

PCT/IT 02/00681

I. B	asis			

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):

	Des	cription, Pages					
	1-8		as originally filed				
	Cla	ims, Numbers					
	1-5		as originally filed				
	Dra	wings, Sheets					
	1/1		as originally filed				
2.	With lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.				
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of publ	anslation furnished for the purposes of the international search (under Rule 23.1(b)). lication of the international application (under Rule 48.3(b)). anslation furnished for the purposes of international preliminary examination (under 3).				
3.	Witl inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequently to this Authority in written form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).					
6.	Add	ditional observations,	if necessary:				

- V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Claims

Inventive step (IS)

Claims

1-5

Industrial applicability (IA)

Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION SEPARATE SHEET

Reference is made to the following documents:

D1: US-A-5584285 D2: DE-C-759110 D3: EP-A-0626180

Point V

- 1.1 D1 shows an apparatus for nebulising a liquid, e.g. for aerosol therapy (fig.4) having standard flap valves (140, fig.4). The subject-matter of claim 1 differs from the device of D1 in that a valve having a shutter movable between an open and a blocking position, said shutter being connected to a ring by deformable connecting elements between the ring and the shutter in order to anchor it to a tubular portion of the nebuliser. According to claim 1 the valve can be either an exhalation or inhalation valve.
- 1.2 Said construction is supposed to provide a valve with good sealing properties at rest and which oppose minimum resistance to opening/closing (see description page 4 1st paragraph). The problem to be solved by the invention can therefore be regarded as how to improve the valves of the apparatus of D1 to improve sealing and minimize closing/opening pressures of the valve.
- 1.3 The valve according to the characterising portion of claim 1 is described in document D2, also a check valve for a respiratory appliance (see col.2 lines 1-2 "Atemventil"), (see figures, deformable connecting elements 3, ring 2 tubular portion 1 and shutter 5) as providing the same advantages as in the present application (see col.2 lines 54-63 and lines 69-81). The skilled person would therefore regard it as a normal option to include the valve of D2 in the apparatus described in document D1 in order to solve the problem posed.
- 2. The subject-matter of claim 3 relates to a protective element for preventing introduction of foreign bodies into the nebuliser ampoule. The provision of such a feature to the device appears to be within the skills of skilled person. D1 shows a similar valve arrangement for the exhalation valve (124, fig.4) with hinged flap (see fig.5) and what can be called a secondary channel 148, fig.4. Therefore, the subject-matter of claims 3-5 does not appear to involve an inventive step either over a combination of D1 with D2 (D3 may also have been taken as the closest prior art).

WRITTEN OPINION SEPARATE SHEET

3. The subject-matter of claim 2 is not shown by the available documents, nevertheless the choice of spiral connecting elements instead of straight ones as taught in D2, appears to be within the skills of a skilled person who has the possibility to experiment in order to make a valve with a determined opening pressure. No special technical effect has been with respect to the spiral form of the connecting elements, therefore it appears to be a matter of design.